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FULL SEARCH INITIATED 09:52:05 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 7134 TO ITERATE

100.0% PROCESSED 7134 ITERATIONS 35 ANSWERS
SEARCH TIME: 00.00.01

L3 35 SEA SSS FUL L1

=> file caplus	SINCE FILE	TOTAL
COST IN U.S. DOLLARS	ENTRY	SESSION
FULL ESTIMATED COST	172.10	172.94

FILE 'CAPLUS' ENTERED AT 09:52:10 ON 11 JUL 2007
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FILE LAST UPDATED: 10 Jul 2007 (20070710/ED)

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L4 14 L3

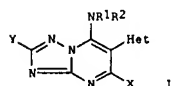
=> d l4 1-14 ibib abs hitstr

L4 ANSWER 1 OF 14 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2007:227834 CAPLUS
DOCUMENT NUMBER: 146:245859
TITLE: Preparation of 7-amino-6-triazolyl-1,2,4-triazolo[1,5-a]pyrimidine derivatives as fungicides
INVENTOR(S): Wagner, Oliver
PATENT ASSIGNEE(S): BASF Aktiengesellschaft, Germany
SOURCE: PCT Int. Appl., 77pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

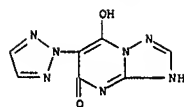
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007023018	A1	20070301	WO 2006-EP63960	20060706
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				

PRIORITY APPL. INFO.: DE 2005-102005033160A 20050713
OTHER SOURCE(S): MARPAT 146:245859
GI

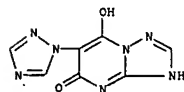


AB The 7-amino-6-triazolyl-1,2,4-triazolo[1,5-a]pyrimidine deriva. 1 [Het = (un)substituted 1,2,3- or 1,2,4-triazolyl; R1 = H, (cyclo)alkyl; alkenyl, alkadienyl, etc.; R2 = R1, (cyclo)alkoxy, alkenyloxy, alkynyloxy or amino; R1NR2 = heterocyclyl; X = H, OH, halo, cyano, alkyl, alkoxy, (un)substituted amino, etc.; Y = H, halo, cyano, (cyclo)alkyl, etc.] are prepared as fungicides.
IT 925686-90-4P 925686-92-6P 925686-94-8P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(intermediate in preparation of 7-amino-6-triazolyl-1,2,4-triazolo[1,5-a]pyrimidine derivative fungicide)
RN 925686-90-4 CAPLUS
CN [1,2,4]Triazolo[1,5-a]pyrimidin-5(1H)-one, 7-hydroxy-6-(2H-1,2,3-triazol-2-yl)- (CA INDEX NAME)

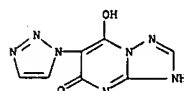
L4 ANSWER 1 OF 14 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 925686-92-6 CAPLUS
CN [1,2,4]Triazolo[1,5-a]pyrimidin-5(1H)-one, 7-hydroxy-6-(1H-1,2,4-triazol-1-yl)- (CA INDEX NAME)



RN 925686-94-8 CAPLUS
CN [1,2,4]Triazolo[1,5-a]pyrimidin-5(1H)-one, 7-hydroxy-6-(1H-1,2,3-triazol-1-yl)- (CA INDEX NAME)



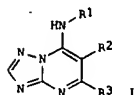
REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 14 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2007:220260 CAPLUS
DOCUMENT NUMBER: 146:295943
TITLE: Preparation of 7-amino-6-pyrazolyl-1,2,4-triazolo[1,5-a]pyrimidines as agrochemical fungicides
INVENTOR(S): Wagner, Oliver
PATENT ASSIGNEE(S): BASF Aktiengesellschaft, Germany
SOURCE: PCT Int. Appl., 67pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007023020	A1	20070301	WO 2006-EP63964	20060706
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				

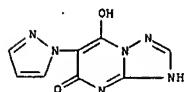
PRIORITY APPL. INFO.: DE 2005-102005033145A 20050713
OTHER SOURCE(S): MARPAT 146:295943
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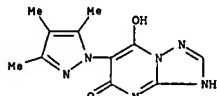
AB Title compds. [1: R1 = H, (halo)alkyl, (halo)alkenyl, (halo)alkynyl, (halo)alkadienyl, etc.; R2 = (substituted) pyrrolyl, pyrazolyl, imidazolyl, oxazolyl, isoxazolyl, (iso)thiazolyl; R3 = H, halo, OH, cyano, NR4R5, (halo)alkoxy, alkylthio, alkylsulfinyl, alkylsulfonyl; R4, R5 = R1], were prepared. Thus, a mixture of 5,7-dichloro-6-(pyrazol-1-yl)-1,2,4-triazolo[1,5-a]pyrimidine (preparation given), (R)-2-methylbut-3-ylamine and Et3N in CH2Cl2 was stirred at room temperature for 48 h to give (R)-5-chloro-7-(2-methylbut-3-ylamino)-6-(pyrazol-1-yl)-1,2,4-triazolo[1,5-a]pyrimidine. Several I as 250 ppm sprays on paprika leaves infected with Botrytis cinerea reduced the infection rate to 20%, vs. 90% for untreated controls.
IT 927821-92-9P 927821-94-1P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of (amino) (pyrazolyl) triazolopyrimidines as agrochem. fungicides)
RN 927821-92-9 CAPLUS

L4 ANSWER 2 OF 14 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

CN [1,2,4]Triazolo[1,5-a]pyrimidin-5(1H)-one, 7-hydroxy-6-(1H-pyrazol-1-yl)- (CA INDEX NAME)



RN 927821-94-1 CAPLUS
CN [1,2,4]Triazolo[1,5-a]pyrimidin-5(1H)-one, 7-hydroxy-6-(3,4,5-trimethyl-1H-pyrazol-1-yl)- (CA INDEX NAME)



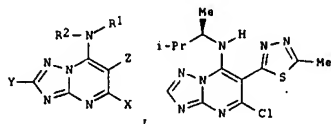
REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 14 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2007:118114 CAPLUS
DOCUMENT NUMBER: 146:206313
TITLE: Preparation of [1,2,4]triazolo[1,5-a]pyrimidin-7-
amines as agrochemical fungicides
INVENTOR(S): Wagner, Oliver
PATENT ASSIGNEE(S): BASF Aktiengesellschaft, Germany
SOURCE: PCT Int. Appl., 75pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007012642	A1	20070201	WO 2006-EP64627	20060725
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KH, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				

PRIORITY APPLN. INFO.: DE 2005-102005036319A 20050729
OTHER SOURCE(S): MARPAT 146:206313
GI



AB Title compds. I [Z = heteroaryl ring with provisos; R1, R2 = H, alkyl, alkenyl, etc.; X = H, halo, CN, etc.; Y = H, halo, CN, etc.] were prepared. For example, pyrimidinylamine II was prepared from 3-aminotriazole in 3-steps. Compds. I exhibited inhibition of botrytis cinerea growth.

IT 923281-36-1P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of triazolopyrimidinylamines as agrochem. fungicides)

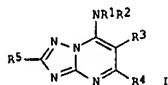
RN 923281-36-1 CAPLUS
CN [1,2,4]Triazolo[1,5-a]pyrimidin-5(1H)-one, 7-hydroxy-6-(5-methyl-1,3,4-thiadiazol-2-yl)- (CA INDEX NAME)

L4 ANSWER 4 OF 14 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2007:58226 CAPLUS
DOCUMENT NUMBER: 146:163132
TITLE: Preparation of 7-amino-6-heteroaryl-1,2,4-triazolo[1,5-a]pyrimidines as agrochemical fungicides
INVENTOR(S): Wagner, Oliver
PATENT ASSIGNEE(S): BASF Aktiengesellschaft, Germany
SOURCE: PCT Int. Appl., 72pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

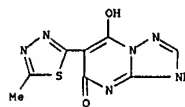
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007006722	A1	20070118	WO 2006-EP63968	20060706
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KH, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				

PRIORITY APPLN. INFO.: DE 2005-102005033146A 20050713
OTHER SOURCE(S): MARPAT 146:163132
GI



AB Title compds. [I; R1, R2 = H, (halo)alkyl, (halo)alkenyl, (halo)alkynyl, (halo)alkadienyl, (halo)alkoxy, etc. or NR1R2 = (substituted) 5- or 6-membered (unsatd.) aromatic heterocyclyl containing O, N, S; R3 = (substituted) pyrrolyl, pyrazolyl, imidazolyl, oxazolyl, isoxazolyl, isothiazolyl; R4 = H, halo, OH, cyano, NR6R7, (halo)alkoxy, alkylthio, alkylsulfinyl, alkylsulfonyl; R5, R6, R7 = R1, R2, R5 = H, halo, cyano, (halo)alkyl, (halo)alkenyl, (halo)alkynyl, (halo)alkoxy, (halo)cycloalkyl, alkylthio, alkylsulfinyl, alkylsulfonyl], were prepared. Thus, 2-bromo-5,7-dichloro-6-(3,5-dimethylpyrazol-1-yl)-1,2,4-triazolo[1,5-a]pyrimidine (preparation given) was stirred with 4-methylpiperidine and Et3N in CH2Cl2 for 12 h at room temperature to give 2,5-dichloro-6-(3,5-dimethylpyrazol-1-yl)-7-(4-methylpiperidin-1-yl)-1,2,4-triazolo[1,5-a]pyrimidine (II) and 2,5-dichloro-6-(3,5-dimethyl-4-bromopyrazol-1-yl)-7-(4-methylpiperidin-1-yl)-1,2,4-triazolo[1,5-a]pyrimidine. II as a 250 ppm spray on wheat seedlings infected with Puccinia recondita spores reduced infection to 3%, vs. 90% for untreated controls.

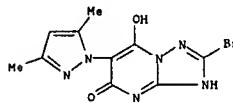
L4 ANSWER 3 OF 14 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



REFERENCE COUNT: 5
THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 4 OF 14 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

IT 920034-73-7P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of (amino) (heteroaryl) triazolopyrimidines as agrochem. fungicides)
RN 920034-73-7 CAPLUS
CN [1,2,4]Triazolo[1,5-a]pyrimidin-5(1H)-one, 2-bromo-6-(3,5-dimethyl-1H-pyrazol-1-yl)-7-hydroxy- (CA INDEX NAME)



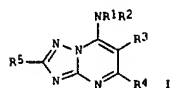
REFERENCE COUNT: 2
THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 5 OF 14 CAPLUS COPYRIGHT 2007 ACS ON STN
ACCESSION NUMBER: 2007:54240 CAPLUS
DOCUMENT NUMBER: 146:163131
TITLE: Preparation of 5-alkyl-7-amino-6-heteroaryl-1,2,4-triazolo[1,5-a]pyrimidines as agrochemical fungicides
INVENTOR(S): Wagner, Oliver; Ulmschneider, Sarah; Huenger, Udo
PATENT ASSIGNEE(S): BASF Aktiengesellschaft, Germany
SOURCE: PCT Int. Appl., 94pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007006724	A1	20070118	WO 2006-EP63970	20060706
V: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				

PRIORITY APPLN. INFO.: DE 2005-102005033143A 20050713
DE 2005-102005036319A 20050729

OTHER SOURCE(S): MARPAT 146:163131
GI



AB Title compds. [1; R1, R2 = H, (halo)alkyl, (halo)alkenyl, (halo)alkynyl, (halo)alkadienyl, (halo)alkoxy, etc. or R1R2N = (substituted) 5- or 6-membered (unsatd.) aromatic heterocyclyl; R3 = (substituted) 5-membered aromatic heterocyclyl containing O, N, S; R4 = (halo)alkyl, (halo)alkenyl, (halo)alkynyl, cyanoalkyl, alkoxyalkyl; R5 = H, halo, cyano, (halo)alkyl, (halo)alkenyl, (halo)alkynyl, (halo)alkoxy, (halo)cycloalkyl, alkylthio, alkylsulfinyl, alkylsulfonyl], were prepared. Thus, di-Et 2-[6-(3,5-dimethylpyrazol-1-yl)-7-(4-methylpiperidin-1-yl)-1,2,4-triazolo[1,5-a]pyrimidine-5-yl]malonate (preparation given) was stirred with HCl for 4 h at 80° followed by stirring for 12 h at room temperature to give 6-(3,5-dimethylpyrazol-1-yl)-5-methyl-7-(4-methylpiperidin-1-yl)-1,2,4-triazolo[1,5-a]pyrimidine. The latter as a 250 ppm spray on wheat seedlings reduced infection by Puccinia recondita to 10%, vs. 90% for untreated controls.

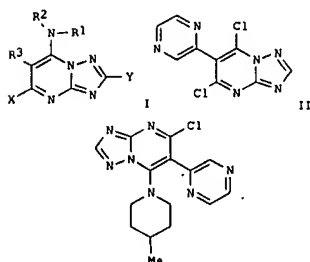
IT 920267-04-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

L4 ANSWER 6 OF 14 CAPLUS COPYRIGHT 2007 ACS ON STN
ACCESSION NUMBER: 2006:627599 CAPLUS
DOCUMENT NUMBER: 145:103702
TITLE: Preparation of 7-amino-6-heteroaryl-1,2,4-triazolo[1,5-a]pyrimidines as agrochemical fungicides
INVENTOR(S): Wagner, Oliver; Grote, Thomas; Rheinheimer, Joachim; Nave, Barbara; Sierl, Reinhard
PATENT ASSIGNEE(S): BASF Aktiengesellschaft, Germany
SOURCE: PCT Int. Appl., 112 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006066818	A2	20060629	WO 2005-EP13577	20051216
WO 2006066818	A3	20061102		
V: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				

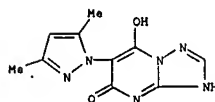
PRIORITY APPLN. INFO.: DE 2004-102004060958A 20041217
DE 2004-102004062199A 20041223

OTHER SOURCE(S): MARPAT 145:103702
GI



III

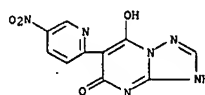
L4 ANSWER 5 OF 14 CAPLUS COPYRIGHT 2007 ACS ON STN (Continued)
(prepn. of (alkyl) (amino) (heteroaryl) triazolopyrimidines as agrochem. fungicides)
RN 920267-04-5 CAPLUS
CN [1,2,4]Triazolo[1,5-a]pyrimidin-5(1H)-one, 6-(3,5-dimethyl-1H-pyrazol-1-yl)-7-hydroxy- (CA INDEX NAME)



REFERENCE COUNT: 13
THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

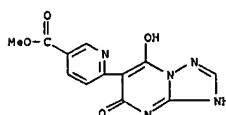
L4 ANSWER 6 OF 14 CAPLUS COPYRIGHT 2007 ACS ON STN (Continued)
AB Title compds. I [R3 = pyridinyl, pyridazinyl, pyrazinyl, etc.; R1, R2 = H, alkyl, haloalkyl, etc.; X = H, OH, halo, etc.; Y = H, halo, CN, etc.] were prepared. For example, condensation of 4-methylpiperidine and dichloropyrimidine II afforded triazolopyrimidine III in 48% yield. In alternaria solani tomato protection assays, 42-examples of compds. I at 250 ppm exhibited 90% protection after 5-days.

IT 896107-00-9P
RL: AGR (Agricultural use); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(preparation of aminoheteroaryltriazolopyrimidines as agrochem. fungicides)
RN 896107-00-9 CAPLUS
CN [1,2,4]Triazolo[1,5-a]pyrimidin-5(1H)-one, 7-hydroxy-6-(5-nitro-2-pyridinyl)- (9CI) (CA INDEX NAME)

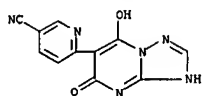


IT 896107-01-0P 896107-02-1P 896107-03-2P
896107-04-3P 896107-05-4P 896107-06-5P
896107-07-6P 896107-08-7P 896107-09-8P
896107-10-1P 896107-11-2P 896107-12-3P
RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of aminoheteroaryltriazolopyrimidines as agrochem. fungicides)

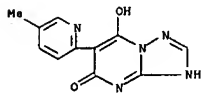
RN 896107-01-0 CAPLUS
CN 3-Pyridinecarboxylic acid, 6-(1,5-dihydro-7-hydroxy-5-oxo[1,2,4]triazolo[1,5-a]pyrimidin-6-yl)-, methyl ester (9CI) (CA INDEX NAME)



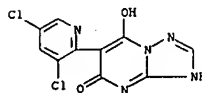
RN 896107-02-1 CAPLUS
CN 3-Pyridinecarbonitrile, 6-(1,5-dihydro-7-hydroxy-5-oxo[1,2,4]triazolo[1,5-a]pyrimidin-6-yl)- (9CI) (CA INDEX NAME)



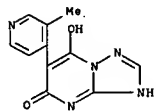
RN 896107-03-2 CAPLUS
CN [1,2,4]Triazolo[1,5-a]pyrimidin-5(1H)-one, 7-hydroxy-6-(5-methyl-2-pyridinyl)- (9CI) (CA INDEX NAME)



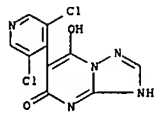
RN 896107-04-3 CAPLUS
CN [1,2,4]Triazolo[1,5-a]pyrimidin-5(1H)-one, 6-(3,5-dichloro-2-pyridinyl)-7-hydroxy- (9CI) (CA INDEX NAME)



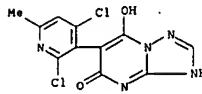
RN 896107-05-4 CAPLUS
CN [1,2,4]Triazolo[1,5-a]pyrimidin-5(1H)-one, 7-hydroxy-6-(3-methyl-4-pyridinyl)- (9CI) (CA INDEX NAME)



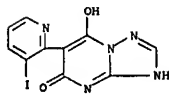
RN 896107-06-5 CAPLUS
CN [1,2,4]Triazolo[1,5-a]pyrimidin-5(1H)-one, 6-(3-bromo-4-pyridinyl)-7-hydroxy- (9CI) (CA INDEX NAME)



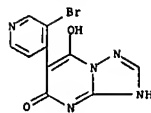
RN 896107-11-2 CAPLUS
CN [1,2,4]Triazolo[1,5-a]pyrimidin-5(1H)-one, 6-(2,4-dichloro-6-methyl-3-pyridinyl)-7-hydroxy- (9CI) (CA INDEX NAME)



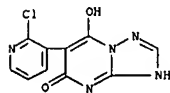
RN 896107-12-3 CAPLUS
CN [1,2,4]Triazolo[1,5-a]pyrimidin-5(1H)-one, 7-hydroxy-6-(3-iodo-2-pyridinyl)- (9CI) (CA INDEX NAME)



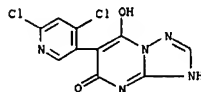
IT 896107-51-0P, 6-(Pyrazin-2-yl)-[1,2,4]triazolo[1,5-a]pyrimidin-5,7-diol 896107-53-2P, 6-(4-Methylpyridin-2-yl)-[1,2,4]triazolo[1,5-a]pyrimidin-5,7-diol 896107-54-3P, 6-(3-Methylpyridin-2-yl)-[1,2,4]triazolo[1,5-a]pyrimidin-5,7-diol 896107-56-5P, 6-(6-Methylpyridin-2-yl)-[1,2,4]triazolo[1,5-a]pyrimidin-5,7-diol
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of aminoheteroaryltriazolopyrimidines as agrochem. fungicides)
RN 896107-51-0 CAPLUS
CN [1,2,4]Triazolo[1,5-a]pyrimidin-5(1H)-one, 7-hydroxy-6-pyrazinyl- (9CI) (CA INDEX NAME)



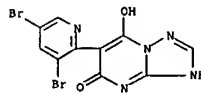
RN 896107-07-6 CAPLUS
CN [1,2,4]Triazolo[1,5-a]pyrimidin-5(1H)-one, 6-(2-chloro-3-pyridinyl)-7-hydroxy- (9CI) (CA INDEX NAME)



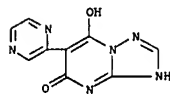
RN 896107-08-7 CAPLUS
CN [1,2,4]Triazolo[1,5-a]pyrimidin-5(1H)-one, 6-(4,6-dichloro-3-pyridinyl)-7-hydroxy- (9CI) (CA INDEX NAME)



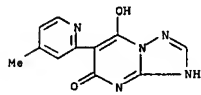
RN 896107-09-8 CAPLUS
CN [1,2,4]Triazolo[1,5-a]pyrimidin-5(1H)-one, 6-(3,5-dibromo-2-pyridinyl)-7-hydroxy- (9CI) (CA INDEX NAME)



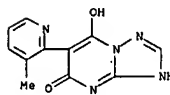
RN 896107-10-1 CAPLUS
CN [1,2,4]Triazolo[1,5-a]pyrimidin-5(1H)-one, 6-(3,5-dichloro-4-pyridinyl)-7-hydroxy- (9CI) (CA INDEX NAME)



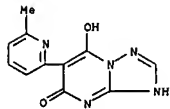
RN 896107-53-2 CAPLUS
CN [1,2,4]Triazolo[1,5-a]pyrimidin-5(1H)-one, 7-hydroxy-6-(4-methyl-2-pyridinyl)- (9CI) (CA INDEX NAME)



RN 896107-54-3 CAPLUS
CN [1,2,4]Triazolo[1,5-a]pyrimidin-5(1H)-one, 7-hydroxy-6-(3-methyl-2-pyridinyl)- (9CI) (CA INDEX NAME)



RN 896107-56-5 CAPLUS
CN [1,2,4]Triazolo[1,5-a]pyrimidin-5(1H)-one, 7-hydroxy-6-(6-methyl-2-pyridinyl)- (9CI) (CA INDEX NAME)



ACCESSION NUMBER: 2004:1154715 CAPLUS

DOCUMENT NUMBER: 142:93845

TITLE: Method for producing triazolopyrimidines for use in controlling undesirable microorganisms

INVENTOR(S): Gebauer, Olaf; Guth, Oliver; Heinemann, Ulrich; Greul, Joerg Nico; Herrmann, Stefan; Gayer, Herbert; Elbe, Hans-Ludwig; Hillebrand, Stefan; Wachendorff-Neumann, Ulrike; Dahmen, Peter; Kuck, Karl-Heinz

PATENT ASSIGNEE(S): Bayer Cropscience Aktiengesellschaft, Germany

SOURCE: PCT Int. Appl., 73 pp.

DOCUMENT TYPE: CODEN: PIXXD2

LANGUAGE: Patent

FAMILY ACC. NUM. COUNT: 1

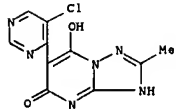
PATENT INFORMATION: German

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004113342	A1	20041229	WO 2004-EP6371	20040614
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, GU, HK, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
DE 10328481	A1	20050113	DE 2003-10328481	20030625
EP 1644374	A1	20060412	EP 2004-739855	20040614
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK			
CN 1812991	A	20060802	CN 2004-80018042	20040614
BR 2004011741	A	20060829	BR 2004-11741	20040614
JP 2007506659	T	20070322	JP 2006-515919	20040614
IN 2005CN03514	A	20070608	IN 2005-CN3514	20051223
PRIORITY APPL. INFO.:			DE 2003-10328481	A 20030625
			WO 2004-EP6371	W 20040614
OTHER SOURCE(S):		MARPAT 142:93845		
GI				

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB The invention relates to novel triazolopyrimidines I [R1 = (un)substituted alkyl, alkenyl, alkynyl, cycloalkyl, heterocycles; R2 = H, alkyl; NR1R2 = heterocycle; R3 = halogen, (un)substituted alkyl, cycloalkyl; R4 = (un)substituted heterocycle; X = halogen], to a method for producing said substances and to their use for controlling undesirable microorganisms. The invention also relates to novel intermediate products of the formulas II, III, IV [R5 = C1-4-alkyl; R6 = halogen, haloalkyl] and V [R7 = halogen, haloalkyl; R8, R9 = H, F, Cl, Br, Me, Et, OH], in addition to methods for producing said substances. A procedure for the preparation of I is characterized by the reaction of dihalotriazolopyrimidines II (Y1 = halogen) with R1R2NH optionally in the presence of a solvent, acid

(Continued)



REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

acceptor and/or a catalyst; pyrimidines II are prepd. from diols III; diols III are prepd. from R4CH(CO2R5)2, e.g. IV and V, via cyclocondensation with 3-amino-5-R3-1,2,4-triazoles; malonate IV is prepd. from 3-R6-2-Y2-pyridine and CH2(CO2R5)2; malonate V is prepd. from pyrimidine VI (Y3 = halogen) and CH2(CO2R5)2. Thus, triazolopyrimidine (S)-I [R1 = CHMeCF3-(S), R2 = H, R3 = Me, R4 = 3-(trifluoromethyl)pyridin-2-yl, X = Cl] was prepd. from II [R2 = H, R3 = Me, R4 = 3-(trifluoromethyl)pyridin-2-yl, X = Cl] via regioselective amination with NHMeCF3-(S) in MeCN contg. KF. Dichlorotriazolopyrimidine II [R2 = H, R3 = Me, R4 = 3-(trifluoromethyl)pyridin-2-yl, X = Y1 = Cl] was prepd. from 2-chloro-3-(trifluoromethyl)pyridine via sequential arylation of CH2(CO2Me)2 in dioxane contg. NaH and catalytic CuCl, cyclocondensation of the resulting heterocyclomalonate IV [R5 = Me, R6 = CF3] with 3-amino-5-cyclopropyl-1,2,4-triazole in the presence Bu3N and chlorination of the triazolopyrimidinediol III [R3 = Me, R4 = 3-(trifluoromethyl)pyridin-2-yl] with POCl3. The antimicrobial activities of I were detd. (over 90% inhibition vs. *Podosphaera leucotricha* at 100 g/ha, over 90% inhibition vs. *Sphaerotheca fuliginea* at 750 g/ha and over 85% inhibition vs. *Erysiphe graminis* at 500 g/ha for (S)-I [R1 = CHMeCF3-(S), R2 = H, R3 = Me, R4 = 3-(trifluoromethyl)pyridin-4-yl, X = Cl]; over 90% inhibition vs. *Podosphaera leucotricha*, *Uncinula necator* and *Venturia inaequalis* at 100 g/ha for (S)-I [R1 = CHMeCF3-(S), R2 = H, R3 = cyclopropyl, R4 = 5-chloropyrimidin-4-yl, X = Cl]).

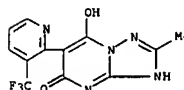
IT 817169-70-3P, 5,7-Dihydroxy-2-methyl-6-[3-(trifluoromethyl)pyridin-2-yl][1,2,4]triazolo[1,5-a]pyrimidine

RI: PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(Preparation and deoxygenation of; preparation of triazolopyrimidines for use in controlling pathogenic microorganisms)

RN 817169-70-3 CAPLUS

CN [1,2,4]Triazolo[1,5-a]pyrimidin-5(1H)-one, 7-hydroxy-2-methyl-6-[3-(trifluoromethyl)-2-pyridinyl]- (9CI) (CA INDEX NAME)



IT 817169-69-0P, 5,7-Dihydroxy-6-[5-chloropyrimidin-4-yl]-2-methyl[1,2,4]triazolo[1,5-a]pyrimidine

RI: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(Preparation and deoxygenation of; preparation of triazolopyrimidines for use in controlling pathogenic microorganisms)

RN 817169-69-0 CAPLUS

CN [1,2,4]Triazolo[1,5-a]pyrimidin-5(1H)-one, 6-(5-chloro-4-pyrimidinyl)-7-hydroxy-2-methyl- (9CI) (CA INDEX NAME)

ACCESSION NUMBER: 2004:1154714 CAPLUS

DOCUMENT NUMBER: 142:93844

TITLE: Method for producing triazolopyrimidines and to their use for controlling undesirable microorganisms

INVENTOR(S): Gebauer, Olaf; Heinemann, Ulrich; Greul, Joerg Nico; Herrmann, Stefan; Guth, Oliver; Elbe, Hans-Ludwig; Gayer, Herbert; Hillebrand, Stefan; Wachendorff-Neumann, Ulrike; Kuck, Karl-Heinz; Dahmen, Peter

PATENT ASSIGNEE(S): Bayer Cropscience Aktiengesellschaft, Germany

SOURCE: PCT Int. Appl., 55 pp.

DOCUMENT TYPE: CODEN: PIXXD2

LANGUAGE: Patent

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION: German

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004113341	A2	20041229	WO 2004-EP6369	20040614
WO 2004113341	A3	20050512		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, GU, HK, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
DE 10328173	A1	20050113	DE 2003-10328173	20030624
EP 1638974	A2	20060329	EP 2004-739853	20040614
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK			
CN 1809571	A	20060726	CN 2004-80017546	20040614
BR 2004011972	A	20060829	BR 2004-11972	20040614
JP 2007506657	T	20070322	JP 2006-515917	20040614
US 2006281767	A1	20061214	US 2006-561174	20060606
PRIORITY APPL. INFO.:			DE 2003-10328173	A 20030624
			WO 2004-EP6369	W 20040614
OTHER SOURCE(S):		MARPAT 142:93844		
GI				

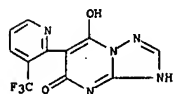
* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB The invention relates to novel triazolopyrimidines I [R1 = (un)substituted alkyl, alkenyl, alkynyl, cycloalkyl, heterocycles; R2 = H, halogen, (un)substituted alkyl, cycloalkyl; R3 = (un)substituted heteroalkyl; G = SO2; X = halogen, CN, (un)substituted alkyl, alkoxy, alkylthio, alkylsulfinyl, alkylsulfonyl; n = 0-2], to a method for producing said substances and to their use for controlling undesirable microorganisms. The procedure for the preparation of I is characterized by the reaction of dihalotriazolopyrimidines II (X1, Y1 = halogen) with R1GH to give I (X = X1) which is further reacted with (i) R4-M (R4 = (un)substituted alkyl, alkylthio, alkylsulfinyl, alkylsulfonyl; CN; M = Na, K); or (ii) R5Mq-Hal

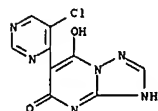
L4 ANSWER 8 OF 14 CAPLUS COPYRIGHT 2007 ACS ON STN (Continued)
 [R5 = (un)substituted alkyl; Hal = Cl, Br] in a dil. medium. The invention also relates to novel intermediate products of the formulas III, IV (R6 = Cl-4-alkyl; R7 = alkyl, haloalkyl) and V (R8 = halo, haloalkyl; R9, R10 = H, F, Cl, Br, Me, Et, OMe), in addn. to methods for producing said substances. Thus, triazolopyrimidine I (R1 = CHMeCHMe2, R2 = H, R3 = 4-chloro-3-pyrimidinyl, G = S, X = Cl) was prepd. from dihalotriazolopyrimidine II (R2 = H, R3 = 4-chloro-3-pyrimidinyl, X1 = Y1 = Cl) via reaction with Me2CHCHMeSH in MeCN contg. KF and K2CO3. The antimicrobial activity of I (R1 = CHMeCHMe2, R2 = H, R3 = 4-chloro-3-pyrimidinyl, G = S, X = Cl) was detd. [100% inhibition vs. *Podospheera leucotricha* at 100g/ha; 90% inhibition vs. *Venturia inaequalis* at 100g/ha; ED50 = 10 ppm vs. *Botrytis cinerea*].

IT 809276-84-4P, 5,7-Dihydroxy-6-[3-(trifluoromethyl)pyridin-2-yl][1,2,4]triazolo[1,5-a]pyrimidine 809276-85-5P, 5,7-Dihydroxy-6-(5-chloropyrimidin-4-yl)[1,2,4]triazolo[1,5-a]pyrimidine
 RL: PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and chlorodeoxygenation of; preparation of triazolopyrimidines for use in controlling pathogenic microorganisms)

RN 809276-84-4 CAPLUS
 CN [1,2,4]Triazolo[1,5-a]pyrimidin-5(1H)-one, 7-hydroxy-6-[3-(trifluoromethyl)-2-pyridinyl]- (9CI) (CA INDEX NAME)



RN 809276-85-5 CAPLUS
 CN [1,2,4]Triazolo[1,5-a]pyrimidin-5(1H)-one, 6-[5-chloro-4-pyrimidinyl]-7-hydroxy- (9CI) (CA INDEX NAME)

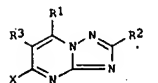


IT 816457-10-8P 816457-19-9P 816457-22-4P
 RL: AGR (Agricultural use); BSU (Biological study, unclassified); PRP (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of triazolopyrimidines for use in controlling pathogenic microorganisms)

RN 816457-10-8 CAPLUS
 CN [1,2,4]Triazolo[1,5-a]pyrimidine, 5-chloro-6-[5-chloro-4-pyrimidinyl]-7-(2,2,2-trifluoro-1-methylethoxy)- (9CI) (CA INDEX NAME)

L4 ANSWER 9 OF 14 CAPLUS COPYRIGHT 2007 ACS ON STN
 ACCESSION NUMBER: 2004:1154559 CAPLUS
 DOCUMENT NUMBER: 142:70279
 TITLE: Preparation of triazolopyrimidine derivatives as fungicides
 INVENTOR(S): Gebauer, Olaf; Heinemann, Ulrich; Greul, Joerg Nico; Herrmann, Stefan; Guth, Oliver; Gayer, Herbert; Elbe, Hans-Ludwig; Hillebrand, Stefan; Ebbert, Ronald; Wachendorf-Neumann, Ulrike; Kuck, Karl-Heinz
 PATENT ASSIGNEE(S): Bayer CropScience Aktiengesellschaft, Germany; et al.
 SOURCE: PCT Int. Appl., 65 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

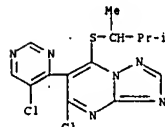
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004112480	A2	20041229	WO 2004-EP6368	20040614
WO 2004112480	A3	20050922		
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RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
DE 10328171	A1	20050113	DE 2003-10328171	20030624
EP 1638400	A2	20060329	EP 2004-736746	20040614
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR				
CN 1812717	A	20060802	CN 2004-80017907	20040614
BR 2004011736	A	20060829	BR 2004-11736	20040614
JP 2007506656	T	20070322	JP 2006-515916	20040614
PRIORITY APPLN. INFO.: DE 2003-10328171 A 20030624 WO 2004-EP6368 W 20040614				
OTHER SOURCE(S): MARPAT 142:70279				
GI				



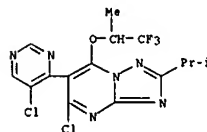
AB The triazolopyrimidines I [R1 = (un)substituted alkyl, alkenyl, alkynyl, etc.; R2 = H, halo, (un)substituted (cyclo)alkyl; R3 = (un)substituted heterocyclyl; X = halo, CN, (un)substituted alkyl, alkoxy, alkylthio, alkylsulfinyl or alkylsulfonyl] are prepd/ as fungicides.

IT 809276-84-4 809276-85-5

L4 ANSWER 8 OF 14 CAPLUS COPYRIGHT 2007 ACS ON STN (Continued)
 RN 816457-19-9 CAPLUS
 CN [1,2,4]Triazolo[1,5-a]pyrimidine, 5-chloro-6-[5-chloro-4-pyrimidinyl]-7-[(1,2-dimethylpropyl)thio]- (9CI) (CA INDEX NAME)

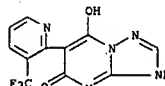


RN 816457-22-4 CAPLUS
 CN [1,2,4]Triazolo[1,5-a]pyrimidine, 5-chloro-6-[5-chloro-4-pyrimidinyl]-2-(1-methylethyl)-7-(2,2,2-trifluoro-1-methylethoxy)- (9CI) (CA INDEX NAME)

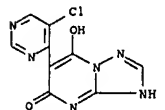


L4 ANSWER 9 OF 14 CAPLUS COPYRIGHT 2007 ACS ON STN (Continued)
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (reactant in prepn. of triazolopyrimidine deriv. fungicide)

RN 809276-84-4 CAPLUS
 CN [1,2,4]Triazolo[1,5-a]pyrimidin-5(1H)-one, 7-hydroxy-6-[3-(trifluoromethyl)-2-pyridinyl]- (9CI) (CA INDEX NAME)



RN 809276-85-5 CAPLUS
 CN [1,2,4]Triazolo[1,5-a]pyrimidin-5(1H)-one, 6-[5-chloro-4-pyrimidinyl]-7-hydroxy- (9CI) (CA INDEX NAME)



L4 ANSWER 10 OF 14 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2004:1080907 CAPLUS

DOCUMENT NUMBER: 142:56343

TITLE:

INVENTOR(S):

PATENT ASSIGNEE(S):

SOURCE:

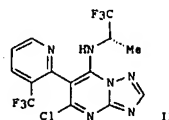
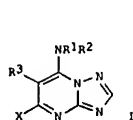
DOCUMENT TYPE:

LANGUAGE:

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004108727	A1	20041216	WO 2004-EP5876	20040601
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, GU, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
DE 10325133	A1	20041223	DE 2003-10325133	20030604
EP 1641798	A1	20060405	EP 2004-735570	20040601
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK			
BR 2004010906	A	20060627	BR 2004-10906	20040601
CN 1802379	A	20060712	CN 2004-80015481	20040601
JP 2006526587	T	20061124	JP 2006-508237	20040601
PRIORITY APPL. INFO.:			DE 2003-10325133	A 20030604
			WO 2004-EP5876	W 20040601
OTHER SOURCE(S):	MARPAT 142:56343			
GI				



AB Title compds. [I: R1 = (substituted) alkyl, alkenyl, alkynyl, cycloalkyl, heterocyclyl; R2 = H, alkyl; R1R2N = (substituted) heterocyclyl; R3 = (substituted) pyridyl, pyrimidinyl; X = halo], were prepared Thus, 5,7-dichloro-6-(3-trifluoromethylpyridin-2-yl)-[1,2,4]-triazolo[1,5-

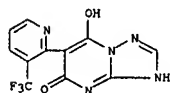
L4 ANSWER 10 OF 14 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
alpyrimidine (prepn. given) was stirred 2 h at 80° with KF in MeCN; the mixt. was cooled to 0° and (S)-2,2,2-trifluoroisopropylamine was added followed by stirring at 80° for 18 h to give 60.4% title compd. (II). I and other I at 100 g/ha gave ≥90% protection against Podosphaera leucotricha on apples.

IT 809276-84-4P 809276-85-5P

RI: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

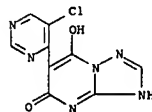
RN 809276-84-4 CAPLUS

CN [1,2,4]Triazolo[1,5-a]pyrimidin-5(1H)-one, 7-hydroxy-6-[3-(trifluoromethyl)-2-pyridinyl]- (9CI) (CA INDEX NAME)



RN 809276-85-5 CAPLUS

CN [1,2,4]Triazolo[1,5-a]pyrimidin-5(1H)-one, 6-(5-chloro-4-pyrimidinyl)-7-hydroxy- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 11 OF 14 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2004:101166 CAPLUS

DOCUMENT NUMBER: 140:146163

TITLE:

INVENTOR(S):

PATENT ASSIGNEE(S):

SOURCE:

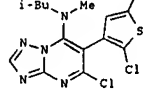
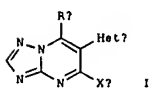
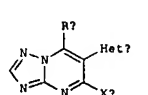
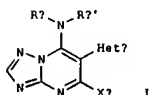
DOCUMENT TYPE:

LANGUAGE:

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004011467	A1	20040205	WO 2003-JP9615	20030729
W:	JP, US			
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR			
PRIORITY APPL. INFO.:			JP 2002-219751	A 20020729
			JP 2002-229836	A 20020807
			JP 2002-249906	A 20020829
OTHER SOURCE(S):	MARPAT 140:146163			
GI				



AB The title compds. I [wherein HetA = (un)substituted heterocyclyl; XA = halo, CN, alkoxy, alkylthio, alkyl-SO2-, alkylamino, or alkoxy-carbonyl; RA and RA' = independently (un)substituted alkyl, alkenyl, alkynyl, or Ph], II [wherein HetB = (un)substituted heterocyclyl; XB = halo, CN, alkoxy, alkylthio, alkyl-SO2-, alkylamino, or alkoxy-carbonyl; RB = (un)substituted heterocyclyl], and III [wherein HetC = (un)substituted heterocyclyl; XC = halo, CN, alkoxy, or alkylthio; RC = alkyl, alkenyl, alkynyl, cycloalkyl, cycloalkylalkyl, or (un)substituted aralkyl] are prepared as fungicides for agricultural and horticultural use. For example, the compound IV was prepared in a multi-step synthesis. I-III showed significant antifungal effect against pyricularia oryzae.

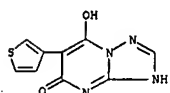
IT 653584-04-4P

RI: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(intermediate; preparation of triazolo[1,5-a]pyrimidin-5(1H)-one derivs. as fungicides)

L4 ANSWER 11 OF 14 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 653584-04-4 CAPLUS

CN [1,2,4]Triazolo[1,5-a]pyrimidin-5(1H)-one, 7-hydroxy-6-(3-thienyl)- (9CI) (CA INDEX NAME)

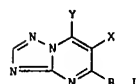


REFERENCE COUNT: 30 THERE ARE 30 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

PATENT INFORMATION:

E

GI

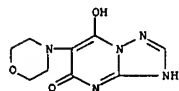


RN 91716-45-9 CAPLUS
CN [1,2,4]Triazolo[1,5-a]pyrimidin-5(1H)-one, 7-hydroxy-6-(1-piperidinyl)-
(9CI) (CA INDEX NAME)

LANGUAGE: English

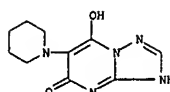
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RN 90887-37-9 CAPLUS
CN 5-Triazolo[1,5-a]pyrimidine-5,7-diol, 6-morpholino- (7CI) (CA INDEX NAME)



CN [1,2,4]Triazolo[1,5-a]pyrimidin-5(1H)-one, 7-hydroxy-6-(1-piperidinyl)-
 (9CI) * (CA INDEX NAME)

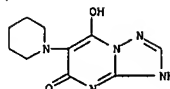
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19

THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

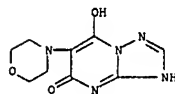
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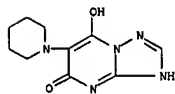
CN [1,2,4]Triazolo[1,5-a]pyrimidin-5(1H)-one, 7-hydroxy-6-(1-piperidinyl)-
 (9CI) * (CA INDEX NAME)

ACCESSION NUMBER: 1962:483243 CAPLUS
 DOCUMENT NUMBER: 57:83243
 ORIGINAL REFERENCE NO.: 57:16606b-1, 16607a
 TITLE: Synthesis of potential anticancer agents. IV. 5,7-di-substituted s-triazolo[2,3-a]pyrimidines
 AUTHOR(S): Makisumi, Yasuo
 CORPORATE SOURCE: Shionogi & Co., Osaka
 SOURCE: Chemical & Pharmaceutical Bulletin (1961), 9, 801-8
 CODEN: CPBTAL; ISSN: 0009-2363
 DOCUMENT TYPE: Journal
 LANGUAGE: Unavailable
 AB of. ibid. 7, 907(1959); CA 54, 14259b. Condensing 32 g. H₂C(CO₂Et)₂ with 16.8 g. 5-amino-1H-1,2,4-triazole (I) in the presence of EtONa in EtOH by refluxing 8 hrs. and acidifying the resulting Na salt yielded 15.2 g. 5,7-(HO)₂ derivative (II) of s-triazolo[2,3-a]pyrimidine (III), m. 238° (decomposition). Use of 11.3 g. NCH₂CO₂Et with 8.4 g. I in a similar procedure yielded 8 g. 5,7-(HO)(H₂N) derivative (IV) of III, m. above 320°. Similarly, refluxing 14.2 g. MeS₂CCH₂CO₂Et with 6.7 g. I 15 hrs. yielded 5,7-(HO)(HS) derivative (V) of III, m. above 320°. The structure of II was confirmed by heating 4 hrs. with POC₁₃ at 100°, concentrating the resulting mixture, and extracting with CHCl₃ to yield 4.2 g. 5,7-Cl₂ derivative (VI) of III, m. 131-2°, and this (0.5 g.) catalytically reduced (Pd-C) in EtOH yielded 0.2 g. III, m. 145-6°, identical with an authentic sample. Stopping the catalytic reduction of VI (1 g.) after the absorption of only 1 mole H, in place of 2 moles H, yielded 0.5 g. 5-Cl derivative (VII) of III, m. 173-3.5° [mixed m.p. 148-50° with the 7-Cl derivative of III, m. 175-6°], and further reduction of 0.5 g. VII yielded 0.35 g. III. Heating 0.5 g. VI 9 hrs. in a sealed tube at 160° with EtOH-NH₃ yielded 0.25 g. 5,7-(H₂N)₂ derivative (VIII) of III, m. 300.5° (decomposition), formed also (0.2 g.) by stirring 5 g. VI 2 hrs. at room temperature with concentrated NH₄OH to yield 3.9 g. 5,7-Cl(H₂N) derivative (IX) of III, m. above 320°, and heating 0.3 g. IX 10 hrs. in a sealed tube at 160° with EtOH-NH₃. Further, refluxing 1.5 g. VI 1 hr. with 1.5 g. SC(NH₂)₂ in EtOH yielded 1.25 g. 5,7-(HS)₂ derivative of III, m. above 320°, and this (0.4 g.) in 1% NaOH shaken 2 hrs. at room temperature with MeI yielded 0.35 g. 5,7-(MeS)₂ derivative (X) of III, m. 221-2°, formed also (0.3 g.) by the similar treatment of 0.3 g. 5,7-HS(MeS) derivative (XI) of III with MeI. Hydrolysis of 0.4 g. VI by heating 30 min. on a water bath with 5% NaOH or 10% HCl gave, not the expected II, but 0.3 g. 5,7-Cl(HO) derivative (XII) of III, m. 257° (decomposition), which (0.7 g.) was catalytically reduced (Pd-C) in EtOH containing a little NH₄OH to yield 0.4 g. 7-HO derivative (XIII) of III, m. 288-9°, identical with the condensation product of malic acid with I [ibid. 7, 907(1959)]. Similar catalytic reduction of 0.5 g. IX yielded 0.3 g. 7-H₂N derivative (XIV) of III, m. 278-9°; 7-AcNH derivative, m. 238-8.5°. The 5-H₂N derivative (XV) of III (0.2 g.), m. 266-7° (5-AcNH derivative, m. 296-7°), was prepared by heating 0.5 g. VII 10 hrs. in a sealed tube at 120° with EtOH-NH₃. VII (0.4 g.) refluxed 1 hr. with SC-(NH₂)₂ yielded 0.25 g. 5-HS derivative (XVI) of III, m. 259-60° (decomposition), and this (0.1 g.) with MeI in 1% NaOH yielded 60 mg. 5-MeS derivative (XVII) of III, m. 157-8.5°. The corresponding 7-MeS derivative (XVIII) of III (0.4 g.), m. 207-8°, was similarly prepared from 0.5 g. 7-HS derivative of III. VII (0.2 g.) hydrolyzed by heating

1 hr. on a water bath with 10% HCl yielded 0.15 g. 5-HO deriv. (XIX) of III, m. 274-5°. Comparison of the ultraviolet absorption spectra and evidence of mixed m.p.s. confirmed the structures of the isomeric 5- and 7-substituted pairs, VII and its 7-Cl isomer (loc. cit.), XIX and XIII, XV and XIV, XVII and XVIII. All these results showed Cl at both 5- and 7-positions of III active toward nucleophilic substitution, the activity of Cl at the 7-position being greater, and either an HO or an NH₂ group at the 7-position stabilized the Cl at the 5-position. To confirm the structure of V (0.8 g.) it was treated with MeI in NaOH as above to yield 0.8 g. 5,7-(HO)(MeS) deriv. (XX) of III, m. 283°, and this (0.3 g.) heated 10 hrs. in a sealed tube at 150-60° with EtOH-NH₃ yielded 0.15 g. IV. Further, XX (4.5 g.) refluxed 2 hrs. with POC₁₃ in the presence of PhNMe₂ yielded 3 g. 5,7-Cl(MeS) deriv. (XXI) of III, m. 207-8°, which (0.8 g.) refluxed 3 hrs. with SC(NH₂)₂ in EtOH yielded 0.18 g. bis(7-methylthio-s-triazolo[2,3-a]pyrimidin-5-yl) sulfide (XXII), m. 288-9° (decompn.), and from the acidified filtrate 0.54 g. 5,7-HS(MeS) deriv. (XXIII) of III, m. 245-6° (decompn.). The structure of XXII was confirmed by its prepn. (0.35 g.) from 0.2 g. XXIII refluxed 3 hrs. with 0.2 g. XXI in 30 cc. EtOH contg. 4 cc. 1% NaOH. XXI (2 g.) heated 10 hrs. in a sealed tube at 150-60° with EtOH-NH₃ yielded 1.3 g. 5,7-H₂N(MeS) deriv. of III, m. 230-1°, formed also (0.35 g.) by the same treatment of 0.4 g. X. Ultraviolet data were reported for II, IV, V, IX, X, and XII in addn. to the above-mentioned isomeric pairs.
 IT 90887-37-9 91716-45-9
 (Derived from data in the 7th Collective Formula Index (1962-1966))
 RN 90887-37-9 CAPLUS
 CN s-Triazolo[1,5-a]pyrimidine-5,7-diol, 6-morpholino- (7Cl) (CA INDEX NAME)



RN 91716-45-9 CAPLUS
 CN [1,2,4]Triazolo[1,5-a]pyrimidin-5(1H)-one, 7-hydroxy-6-(1-piperidinyl)- (9Cl) (CA INDEX NAME)



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(FILE 'HOME' ENTERED AT 09:49:05 ON 11 JUL 2007)

FILE 'REGISTRY' ENTERED AT 09:51:18 ON 11 JUL 2007

L1 STRUCTURE UPLOADED
L2 3 S L1
L3 35 S L1 FULL

FILE 'CAPLUS' ENTERED AT 09:52:10 ON 11 JUL 2007

L4 14 S L3

=> log y

COST IN U.S. DOLLARS

SINCE FILE
ENTRY

TOTAL
SESSION

FULL ESTIMATED COST

79.42

252.36

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE
ENTRY

TOTAL
SESSION

CA SUBSCRIBER PRICE

-10.92

-10.92

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Connecting via Winsock to STN

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LOGINID:SSPTAJHM1624

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NEWS 3 MAR 16 CASREACT coverage extended
NEWS 4 MAR 20 MARPAT now updated daily
NEWS 5 MAR 22 LWPI reloaded
NEWS 6 MAR 30 RDISCLOSURE reloaded with enhancements
NEWS 7 APR 02 JICST-EPLUS removed from database clusters and STN
NEWS 8 APR 30 GENBANK reloaded and enhanced with Genome Project ID field
NEWS 9 APR 30 CHEMCATS enhanced with 1.2 million new records
NEWS 10 APR 30 CA/CAPLUS enhanced with 1870-1889 U.S. patent records
NEWS 11 APR 30 INPADOC replaced by INPADOCDB on STN
NEWS 12 MAY 01 New CAS web site launched
NEWS 13 MAY 08 CA/CAPLUS Indian patent publication number format defined
NEWS 14 MAY 14 RDISCLOSURE on STN Easy enhanced with new search and display fields
NEWS 15 MAY 21 BIOSIS reloaded and enhanced with archival data
NEWS 16 MAY 21 TOXCENTER enhanced with BIOSIS reload
NEWS 17 MAY 21 CA/CAPLUS enhanced with additional kind codes for German patents
NEWS 18 MAY 22 CA/CAPLUS enhanced with IPC reclassification in Japanese patents
NEWS 19 JUN 27 CA/CAPLUS enhanced with pre-1967 CAS Registry Numbers
NEWS 20 JUN 29 STN Viewer now available
NEWS 21 JUN 29 STN Express, Version 8.2, now available
NEWS 22 JUL 02 LEMBASE coverage updated
NEWS 23 JUL 02 LEMBASE coverage updated
NEWS 24 JUL 02 SCISEARCH enhanced with complete author names
NEWS 25 JUL 02 CHEMCATS accession numbers revised
NEWS 26 JUL 02 CA/CAPLUS enhanced with utility model patents from China

NEWS EXPRESS 29 JUNE 2007: CURRENT WINDOWS VERSION IS V8.2,
CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 05 JULY 2007.

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EAST Search History

S2	2	"5612345".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/11 10:18
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EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	190	514/259.31.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/11 10:16
L2	1736	triazolopyrimidine	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/11 10:16
L3	111	I1 I2	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/07/11 10:16
L4	1	antimicrobial I3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/07/11 10:17
L5	2	I3 antifungal	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/07/11 10:17
L6	24989	I3 micro-organism	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/11 10:19
L7	3	I3 micro-organism	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/07/11 10:19